**Lab 2**

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1. Create one hello world program by using text editor (such as "nano") on your Ubuntu, and it could be a c or c++ program (make sure it has the proper extension name).

Output:

Graphical user interface, text

Description automatically generated

1. Use the GNU C/C++ compiler to compile your source code. Type gcc main.c {o HelloWorld. Replace \main.c" with the name of your source codefile, and \HelloWorld" with the name of your finished program. The program will now compile. If you see errors and want to see more information about them, use gcc -Wall -o error log \_le1.c. Then, view the \error log" \_le in the current directory with cat error log.

Answer: Here command “gcc prog.c -o prog” is used to compile the code return in text editor. After applying that code nothing shows on the screen which indicates that the code has no errors.

Output:

Text

Description automatically generated

1. Run your newly compiled program. Type. /HelloWorld but replace \HelloWorld" with the name of your program. (. / Means current directory)

Answer: Here command “./prog” is used to execute that program from that particular PATH.

Output:

Text

Description automatically generated

1. Put your current directory (where your Hello World is) in your $PATH so you can run it from any directory by calling its name (mean without. /) Please show me you can run your program in both current and other directories.

Answer: Here the output before changing the directory is given in above image and output after changing the directory is given in below image.

Output:

Text

Description automatically generated